

**GRADE 12 MATHEMATICS  
NOVEMBER EXAMINATION PAPER 1**

**QUESTION 1**

1.1 Solve for  $x$

1.1.1  $x^2 - 9x + 20 = 0$  (3)

1.1.2  $x(x + 3) - 1 = 0$  (correct to 2 decimal points) (3)

1.1.3  $x^2 + 7x < 0$  (3)

1.1.4  $2x^{\frac{2}{3}} = 64$  (4)

1.2 Solve simultaneously for  $x$  and  $y$  if:

$2x - y = 8$ , and  
 $x^2 - xy + y^2 = 19$  (7)

1.3 Solve the expression below without the use of a calculator:

$$\frac{\sqrt[3]{4} + \sqrt[3]{2}}{\sqrt[3]{16}}$$

(4)

**QUESTION 2**

2.1 The terms  $p$ ,  $(2p + 2)$ ,  $(5p + 3)$  form an arithmetic sequence.

Determine:

2.1.1 The value of  $p$ . (4)

2.1.2 The rule in the form of  $a_n = a + (n - 1)d$ . (2)

2.1.3 The 15th term of the sequence. (4)

2.2  $x$ ,  $y$ , 81 is a geometric sequence.  
And  $y = 2x - 5$   
All terms in the sequences are integers.  
Calculate the values of  $x$  and  $y$ . (10)

(20)

**QUESTION 3**

Given the sequence 2, 8, 10, 14, ....

3.1 What type of sequence is this? Justify your answer by calculation. (2)

3.2 Calculate  $T_{10}$ . (3)

3.3 Which term has a value of 322? (3)

3.4 Determine by calculation if 1204 is a term in the sequence? (4)

(12)

**QUESTION 4**

The sketch below shows the graph of  $f(x) = \frac{-1}{x+5} + q$ . The asymptotes of  $f$  intersects at  $B(-1; y)$ . The Point  $D(5; 4)$  is a point on the graph.



4.1 Determine the value of  $p$ . (1)

4.2 Prove that  $q = 5$ . (2)

4.3 Calculate the  $x$ -intercept of  $f$ . (2)

4.4 Determine the equation of the vertical asymptote of  $h$  if  $h(x) = f(x + 4)$ . (2)

4.5 One of the symmetry axes of  $f$  is an increasing function. Determine the equation of the symmetry axis. (3)

4.6 Give the values  $x$  for  $f(x) \geq x + 6$ . (2)

4.7 Determine the equation of  $g$ , the reflection of  $f$  in the  $x$ -axis and move two units to the right. (3)

(15)

# Maths Paper1 2013 Memo

**Pascal Lambrechts, Ismar Volić**



## Maths Paper1 2013 Memo:

**Generalized Descriptive Set Theory and Classification Theory** Sy-David Friedman, Tapani Hyttinen, Vadim Kulikov, 2014-06-05 Descriptive set theory is mainly concerned with studying subsets of the space of all countable binary sequences. In this paper the authors study the generalization where countable is replaced by uncountable. They explore properties of generalized Baire and Cantor spaces, equivalence relations and their Borel reducibility. The study shows that the descriptive set theory looks very different in this generalized setting compared to the classical countable case. They also draw the connection between the stability theoretic complexity of first order theories and the descriptive set theoretic complexity of their isomorphism relations. The authors' results suggest that Borel reducibility on uncountable structures is a model theoretically natural way to compare the complexity of isomorphism relations. Global and Local Regularity of Fourier Integral Operators on Weighted and Unweighted Spaces David Dos Santos Ferreira, Wolfgang Staubach, 2014-04-07 The authors investigate the global continuity on spaces with Fourier integral operators with smooth and rough amplitudes and or phase functions subject to certain necessary non degeneracy conditions. In this context they prove the optimal global boundedness result for Fourier integral operators with non degenerate phase functions and the most general smooth Hörmander class amplitudes, i.e. those in  $S_{\rho,\delta}^{-\infty}$ . They also prove the very first results concerning the continuity of smooth and rough Fourier integral operators on weighted spaces with and without the Muckenhoupt weights for operators with rough and smooth amplitudes and phase functions satisfying a suitable rank condition. *Large Deviations for Additive Functionals of Markov Chains* Alejandro D. de Acosta, Peter Ney, 2014-03-05 **A Complete Classification of the Isolated Singularities for Nonlinear Elliptic Equations with Inverse Square Potentials** Florica C. Cîrstea, 2014-01-08 In particular for  $b \geq 1$  and  $0$  we find a sharp condition on  $h$  such that the origin is a removable singularity for all non negative solutions of  $\Delta u = h|u|^{b-2}u$  thus addressing an open question of Vázquez and Vron. **Operator-Valued Measures, Dilations, and the Theory of Frames** Deguang Han, David R. Larson, Bei Liu, Rui Liu, 2014-04-07 The authors develop elements of a general dilation theory for operator valued measures. Hilbert space operator valued measures are closely related to bounded linear maps on abelian von Neumann algebras and some of their results include new dilation results for bounded linear maps that are not necessarily completely bounded and from domain algebras that are not necessarily abelian. In the non cb case the dilation space often needs to be a Banach space. They give applications to both the discrete and the continuous frame theory. There are natural associations between the theory of frames including continuous frames and framings, the theory of operator valued measures on sigma algebras of sets and the theory of continuous linear maps between algebras. In this connection frame theory itself is identified with the special case in which the domain algebra for the maps is an abelian von Neumann algebra and the map is normal, i.e. ultraweakly or weakly or  $w^*$  continuous. **Formality of the Little  $\mathbb{N}$ -disks Operad** Pascal Lambrechts, Ismar Volić, 2014-06-05 The little disks operad along with its variants is an important tool in homotopy

theory It is defined in terms of configurations of disjoint dimensional disks inside the standard unit disk in and it was initially conceived for detecting and understanding fold loop spaces Its many uses now stretch across a variety of disciplines including topology algebra and mathematical physics In this paper the authors develop the details of Kontsevich's proof of the formality of little disks operad over the field of real numbers More precisely one can consider the singular chains on as well as the singular homology of These two objects are operads in the category of chain complexes The formality then states that there is a zig zag of quasi isomorphisms connecting these two operads The formality also in some sense holds in the category of commutative differential graded algebras The authors additionally prove a relative version of the formality for the inclusion of the little disks operad in the little disks operad when Singularity Theory for Non-Twist KAM Tori A.

González-Enríquez, A. Haro, R. de la Llave, 2014-01-08 In this monograph the authors introduce a new method to study bifurcations of KAM tori with fixed Diophantine frequency in parameter dependent Hamiltonian systems It is based on Singularity Theory of critical points of a real valued function which the authors call the potential The potential is constructed in such a way that nondegenerate critical points of the potential correspond to twist invariant tori i.e. with nondegenerate torsion and degenerate critical points of the potential correspond to non twist invariant tori Hence bifurcating points correspond to non twist tori **Effective Hamiltonians for Constrained Quantum Systems** Jakob Wachsmuth, Stefan

Teufel, 2014-06-05 The authors consider the time dependent Schrödinger equation on a Riemannian manifold with a potential that localizes a certain subspace of states close to a fixed submanifold When the authors scale the potential in the directions normal to by a parameter the solutions concentrate in an neighborhood of This situation occurs for example in quantum wave guides and for the motion of nuclei in electronic potential surfaces in quantum molecular dynamics The authors derive an effective Schrödinger equation on the submanifold and show that its solutions suitably lifted to approximate the solutions of the original equation on up to errors of order at time Furthermore the authors prove that the eigenvalues of the corresponding effective Hamiltonian below a certain energy coincide up to errors of order with those of the full Hamiltonian under reasonable conditions *Combinatorial Floer Homology* Vin de Silva, Joel W. Robbin, Dietmar A. Salamon, 2014-06-05 The authors define combinatorial Floer homology of a transverse pair of noncontractible nonisotopic embedded loops in an oriented manifold without boundary prove that it is invariant under isotopy and prove that it is isomorphic to the original Lagrangian Floer homology Their proof uses a formula for the Viterbo Maslov index for a smooth lune in a manifold

**Weighted Bergman Spaces Induced by Rapidly Increasing Weights** Jose Angel Pelaez, Jouni Rattya, 2014-01-08 This monograph is devoted to the study of the weighted Bergman space  $A_{p, \omega}$  of the unit disc  $\mathbb{D}$  that is induced by a radial continuous weight  $\omega$  satisfying  $\lim_{r \rightarrow 1} \frac{1}{r} \int_r^1 \omega(s) ds = \omega(r)$  Every such  $A_{p, \omega}$  lies between the Hardy space  $H^p$  and every classical weighted Bergman space  $A_{p, \alpha}$  Even if it is well known that  $H^p$  is the limit of  $A_{p, \alpha}$  as  $\alpha \rightarrow 1$  in many respects it is shown that  $A_{p, \omega}$  lies closer to  $H^p$  than any  $A_{p, \alpha}$  and that

several finer function theoretic properties of  $A_{p_\alpha}$  do not carry over to  $A_{p_\omega}$       **Semiclassical Standing Waves with Clustering Peaks for Nonlinear Schrödinger Equations** Jaeyoung Byeon, Kazunaga Tanaka, 2014-04-07 The authors study the following singularly perturbed problem in  $\mathbb{R}^N$ . Their main result is the existence of a family of solutions with peaks that cluster near a local maximum of  $A$ . A local variational and deformation argument in an infinite dimensional space is developed to establish the existence of such a family for a general class of nonlinearities      **Relative Equilibria in the**

**3-Dimensional Curved  $n$ -Body Problem** Florin Diacu, 2014-03-05 Considers the 3 dimensional gravitational  $n$  body problem in spaces of constant Gaussian curvature  $K \neq 0$  i.e. on spheres  $S^3$  for  $K > 0$  and on hyperbolic manifolds  $H^3$  for  $K < 0$

*On the Spectra of Quantum Groups* Milen Yakimov, 2014-04-07 Joseph and Hodges Levasseur in the  $A$  case described the spectra of all quantum function algebras on simple algebraic groups in terms of the centers of certain localizations of quotients of by torus invariant prime ideals or equivalently in terms of orbits of finite groups These centers were only known up to finite extensions The author determines the centers explicitly under the general conditions that the deformation parameter is not a root of unity and without any restriction on the characteristic of the ground field From it he deduces a more explicit description of all prime ideals of than the previously known ones and an explicit parametrization of

Nonlinear Stability of Ekman Boundary Layers in Rotating Stratified Fluids Hajime Koba, 2014-03-05 A stationary solution of the rotating Navier Stokes equations with a boundary condition is called an Ekman boundary layer This book constructs stationary solutions of the rotating Navier Stokes Boussinesq equations with stratification effects in the case when the rotating axis is not necessarily perpendicular to the horizon The author calls such stationary solutions Ekman layers This book shows the existence of a weak solution to an Ekman perturbed system which satisfies the strong energy inequality Moreover the author discusses the uniqueness of weak solutions and computes the decay rate of weak solutions with respect to time under some assumptions on the Ekman layers and the physical parameters The author also shows that there exists a unique global in time strong solution of the perturbed system when the initial datum is sufficiently small Comparing a weak solution satisfying the strong energy inequality with the strong solution implies that the weak solution is smooth with respect to time when time is sufficiently large      *Cohomology for Quantum Groups via the Geometry of the Nullcone* Christopher P.

Bendel, Daniel K. Nakano, Brian J. Parshall, Cornelius Pillen, 2014-04-07 In general little is known about the representation theory of quantum groups resp algebraic groups when  $l$  resp  $p$  is smaller than the Coxeter number  $h$  of the underlying root system For example Lusztig's conjecture concerning the characters of the rational irreducible  $G$  modules stipulates that  $p \geq h$  The main result in this paper provides a surprisingly uniform answer for the cohomology algebra  $H^*(\mathfrak{g}, \mathbb{C})$  of the small quantum group      Near Soliton Evolution for Equivariant Schrödinger Maps in Two Spatial Dimensions Ioan Bejenaru, Daniel

Tataru, 2014-03-05 The authors consider the Schrödinger Map equation in  $2+1$  dimensions with values into  $S^2$  This admits a lowest energy steady state  $Q$  namely the stereographic projection which extends to a two dimensional family of

steady states by scaling and rotation The authors prove that  $Q$  is unstable in the energy space  $\dot{H}^1$  However in the process of proving this they also show that within the equivariant class  $Q$  is stable in a stronger topology  $X \subset \dot{H}^1$

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Dezert, 2015-03-01 The fourth volume on Advances and Applications of Dezert Smarandache Theory DSMT for information fusion collects theoretical and applied contributions of researchers working in different fields of applications and in mathematics The contributions see List of Articles published in this book at the end of the volume have been published or presented after disseminating the third volume 2009 <http://fs.gallup.unm.edu/DSMT/book3.pdf> in international conferences seminars workshops and journals

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Set Theory for Computing Domenico Cantone, Eugenio Omodeo, Alberto Policriti, 2013-06-29 Set Theory for Computing offers an up to date and comprehensive account of set oriented symbolic manipulation and automated reasoning methods Mastering today's variety of systems with crisp formal tools is a prerequisite for a high degree of control over sets and aggregates The many algorithmic methods and deductive techniques in this book offer readers a clear view of the use of set theoretic notions in such critical areas as specification of problems data types and solution methods algorithmic program verification and automated deduction The rigorous and largely self contained style of presentation addresses readers wanting to complement their set intuition with the ability to exploit it in specification and verification and master it by symbolic logically based techniques and methods This book will be of interest to graduates and researchers in theoretical computer science and computational logic and automated reasoning

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